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Application Number		09402820
Filing Date		1999-10-12
First Named Inventor	Benjamin Chain	
Art Unit	1645	
Examiner Name	P. A. Duffy	
Attorney Docket Number	20555/1203301-US1	

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	4	4741901		1988-05-03	Levinson et al.	
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9	6710226		2004-03-23	Schenk	
10	6717031	A1	2004-04-06	Games et al.	
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3	Hanan et al, Inhibitory effect of monoclonal antibodies on Alzheimer's beta-amyloid peptide aggregation. Amyloid: Int. H. Exp. Clin. Invest. 1996, Vol. 3, pages 130-133.	<input type="checkbox"/>
4	Jones et al. Antibodies for Targeted Gene Therapy: Extracellular Gene Targeting and Intracellular Expression. Advanced Drug Delivery Reviews. 1988, Vol. 31, pp. 153-170.	<input type="checkbox"/>
5	Marasco et al. Design, Intracellular Expression, and Activity of a Human Anti- Human Immunodeficiency Virus Type 1 gp 120 Single-Chain Antibody. Proc. Natl. Acad. Sci. (USA). August 1993, vol. 90, pp. 7889-7893.	<input type="checkbox"/>
6	Seubert et al. Secretion of B-Amyloid Precursor Protein Cleaved at the Amino Terminus of the B-Amyloid Peptide. Nature. 21 January 1993, Vol. 361 pp. 260-263.	<input type="checkbox"/>
7	Nakamura et al. Carboxyl End- Specific Monoclonal Antibodies to Amyloid B Protein (AB) subtypes (AB40 and AB42 (43) Differentiate AB in Senile Plaques and Amyloid Angiopathy in Brains of Aged Cynomolgus Monkeys. Neurosci. Let. 1995, Vol. 201, pp. 151-154.	<input type="checkbox"/>
8	Bourbonniere et al. Expression of Amyloid Precursor Protein in a Neuronal Cell Line: Functional Activity of Proximal Regulatory Elements. Molecular Brain Research. 1993, Vol. 19, pp. 246-250.	<input type="checkbox"/>
9	Le Gal La Salle et al. Ad Adenovirus Vector for Gene Transfer into Neurons and Glia in the Brain. Science. 12 February 1993, Vol. 259, pp. 988-990.	<input type="checkbox"/>
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11	Cheng, P-W. Receptor Ligand-Facilitated Gene Transfer: Enhancement of Liposome-Mediated Gene Transfer and Expression by Transferrin. Human Gene Therapy. February 10, 1996, Vol. 7, pp. 275-282.	<input type="checkbox"/>
12	Steinberg, D. News: Companies Halt First Alzheimer Vaccine Trial. The Scientist. 01 April 2002, Vol. 16, pp. 1-6.	<input type="checkbox"/>
13	Gravina et al, "Amyloid b Protein (Ab) in Alzheimer's Disease Brain: Biochemical and Immunocytochemical Analysis with Antibodies Sepceific for Forms Ending at Ab 40 or Ab42(43)", J Biol Chem 270(13):7013-7016 (1995).	<input type="checkbox"/>

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14	Harrington et al, "Characterisation of an epitope specific to the neuron-specific isoform of human enolase recognized by a monoclonal antibody raised against a synthetic peptided corresponding to the C-terminus of b/A4-protein", Biochim Biophys Acta 1158: 120-127.	<input type="checkbox"/>
15	Gravina SA et al., "Amyloid beta protein (A beta) in Alzheimer's Disease brain. Biochemical and immunocytochemical analysis with antibodies specific for forms ending at A beta 40 or A beta 42(43)," J Biol Chem 270:(13):7013-7016 (1995).	<input type="checkbox"/>
16	Harrington CR et al., "Characterisation of an epitope specific to the neuron-specific isoform of human enolase recognized by a monoclonal antibody raised against a synthetic peptide corresponding to the C-terminus of beta/A4-protein," Biochim Biophys Acta 1158 (2):120-128 (1993).	<input type="checkbox"/>
17	Higgins at el. "Transgenic Mouse Brian Histopathology Resembles Early Alzheimer's Disease," Ann Neurol. 35:598-607 (1994).	<input type="checkbox"/>
18	Iwatsubo T et al., "Visualization of A beta 42(43) and A beta 40 in senile plaques with end-specific A beta monoclonals: evidence that an initially deposited species is A beta 42(43)," Neuron 13(1):45-53 (1994).	<input type="checkbox"/>
19	Iwatsubo etal, "Amyloid b Protein (AB) Deposition: AB 42(43) Precedes AB40 in Down Syndrome", Ann Neurol 37:294-299 (1995).	<input type="checkbox"/>
20	Konig, G et al., "Development and characterization of a monoclonal antibody 369.2B specific for the carboxyl-terminus of the beta A4 peptide," Ann NY Acad Sci 777:344-355 (1996).	<input type="checkbox"/>
21	Murphy, GM Jr. et al. "Development of a monoclonal antibody specific for the COOH-terminal of beta-amyloid 1-42 and its immunohistochemical reactivity in Alzheimer's Disease and related disorders Am J Path 144(5): 1082-1088 (1994).	<input type="checkbox"/>
22	Mann et al, "The Extent of Amyloid Deposition in Brain in patients with Down's Syndrome does not depend upon the Aolipoprotein E genotype", Neurosci Letter 196(1-2): 105-108 (1995)	<input type="checkbox"/>
23	MANN et al, Predominant Deposition of Amyloid-B42(43) in Plaques in Cases of Alzheimer's Disease and Hereditary Cerebral Hemorrhage Associated with Mutations in the Amyloid Precursor Protein Gene", Am J Pathol 148(4): 1257-1265 (1996).	<input type="checkbox"/>
24	Mann et al, "Amyloid beta prtoein (Abeta) deposition in chromosome 14-linked Alzeheimer's disease: predominance of Abeta 42(43)", Ann Neurol 40(2): 149-156 (1996).	<input type="checkbox"/>

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25	Nakamura et al, "Carboxyl end-specific monoclonal antibodies to amyloid beta protein (A beta) subtypes (A beta 40 and A beta 42(43)) differentiate A beta in senile plaques and amyloid angiopathy in brains of aged cynomolgus monkeys", Neurosci Letter 201 (2): 151-154 (1996).	<input type="checkbox"/>
26	Saido et al, "Spatial Resolution of Fodrin Proteolysis in Pstotischemic Brain", J Biol Chem 268(33): 25239-25243 (1993).	<input type="checkbox"/>
27	Suzuki et al, "High Tissue conten of Soluble b1-40 is Linked to Cerebral Amyloid Angiopathy", Am J Pathol 145(2): 452-460 (1994).	<input type="checkbox"/>
28	Tamaoka et al, "Amyloid b protein 1-42/43 (Ab 1-42/43) in cerebellar diffuse plaques: enzyme-linked immunosorbent assay and immunocytochemical study", Brain Res. 679: 151-156 (1995).	<input type="checkbox"/>
29	Tsuzuki et al, "Amyloid beta protein in rat soleus muscle in chloroquine-induced myopathy using end-specific antibodies for A beta 40 and A beta 42: immunohistochemical evidence for amyloid beta protein", Neurosci Letters 202 (1-2): 77-80 (1995).	<input type="checkbox"/>
30	Turner et al, "Mayloids b40 and b42 are Generated Intacellualarly in Cultured Human Neurons and Their Secretion Increases with Maturation", J Biol Chem 271(15):8966-8970.	<input type="checkbox"/>
31	Yanagisawa et al, "Fractionation of Amyloid b-Protein (Ab) in Alzheimer's Disease and Down's Syndrome Brains: Presence of Membrane-Bound Ab", Ann NY Acad Sci 786:184-194 (1996).	<input type="checkbox"/>
32	Jarrett, JT et al., "The carboxy terminus of the beta amyloid protein is critical for the seeding of amyloid formation: implications for the pathogeneisis of Alzheimer's Disease," Biochemistry 32:4693-4697 (1993b).	<input type="checkbox"/>
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34	Quitschke et al., "The initiator element and proximal upstream sequences affect transcriptional activity and start site selection in the amyloid β -protein precursor promoter," J. Biol. Chem. 271(36), pp. 22231-22239 (1996)	<input type="checkbox"/>
35	Saido et al., "Autolytic transition of μ -calpain upon activation as resolved by antibodies distinguishing between the pre- and post-autolysis forms," J. Biochem. 111:81-86 (1992).	<input type="checkbox"/>

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36	Saido et al., "In situ capture of mu-calpain activation in platelets," J. Biol. Chem. 268(10): (1993) (Abstract Only)	<input type="checkbox"/>
37	Busciglio, J et al., "Generation of beta-amyloid in the secretory pathway in neuronal and nonneuronal cells Proc Nat Acad Sci USA 90:2092-2096 (1993).	<input type="checkbox"/>
38	Haas, C. et al., "Amyloid beta-peptide is produced by cultured cells during normal metabolism," Nature 359:322-325 (1992).	<input type="checkbox"/>
39	Masters, CL et al., "Amyloid plaque core protein in Alzheimer disease and Down syndrome," Proc Nat Acad Sci USA 82:4245-4249 (1985).	<input type="checkbox"/>
40	Miller, DL et al., "Peptide compositions of the cerebrovascular and senile plaque core amyloid deposits of Alzheimer's Disease," Arch Biochem Biophys 301:41-52 (1993).	<input type="checkbox"/>
41	Seubert, P et al., "Isolation and quantification of soluble Alzheimer's beta-peptide from biological fluids," Nature 359:325-327 (1992).	<input type="checkbox"/>
42	Gegeddes JW et al. (1999) "N-terminus truncated b-amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease". Neuobiol of Aging 20, 75-79.	<input type="checkbox"/>
43	Haas C et al. (1993) "Cellular processing of B amyloid precursor protein and the genesis of amyloid B-peptide." Cell 75, <1039-1042	<input type="checkbox"/>
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45	Johnson-Wood K. et al. "Amyloid precursor protein processing and Abeta42 deposition in a transgenic mouse model of Alzheimer disease" Proc natl. Acad. Sci U.S.A. 1997 Feb. 18; 94 (4): 1550-5.	<input type="checkbox"/>
46	Lalowski M (1996) " The nonamyloidogenic p3 fragment (amyloid b 17-42) is a major constituent of Down's syndrome cerebellar preamyloid." J biol Chem 271, 33623-31.	<input type="checkbox"/>

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47	Larner AJ (1999) "Hypothesis: amyloid b peptides truncated at the N-terminus contribute to the pathogenesis of Alzheimer's disease." Neurobiol. of Aging 20, 65-69.	<input type="checkbox"/>
48	Nasuland et al. (1994) "Relative abundance of Alzheimer Ab amyloid peptide variants in Alzheimer disease and normal aging. " Proc. Natl. Acad. Sci. USA 91, 8378-8382.	<input type="checkbox"/>
49	Pike CJ et al. (1995) "Amino-terminal deletions enhance aggregation of b-amyloid peptides in vitro." J Biol Chem 270, 23895-8.	<input type="checkbox"/>
50	Vigo-Pelfrey C et al. (1993) "Characterization of beta-amyloid peptide from human cerebrospinal fluid." J Neurochem 61, 1965-8.	<input type="checkbox"/>

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- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
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Signature	/FB/ Flynn Barrison (53,970)	Date (YYYY-MM-DD)	
Name/Print	Mitchell Bernstein	Registration Number	46550

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